

MILD STEEL COLD / HOT RECTANGULAR HOLLOW SECTION

ASTM A - 500

Section Index		Thk	Weight	Sect. Area	Modulus of Section	
A X B					Zx	Zy
mm	inch	mm	kg/m	cm ²	cm ³	cm ³
19 X 9	3/4 X 3/8	1.0	0.401	0.511	0.232	0.145
		1.2	0.473	0.602	0.266	0.163
		1.6	0.606	0.772	0.321	0.191
25 X 12	1 X 1/2	1.0	0.543	0.691	0.429	0.276
		1.2	0.642	0.818	0.496	0.316
		1.6	0.832	1.06	0.616	0.382
32 X 16	1 1/4 X 5/8	1.0	0.716	0.911	0.749	0.501
		1.2	0.849	1.082	0.875	0.58
		1.6	1.11	0.141	1.1	0.72
38 X 12	1 1/2 X 1/2	1.0	0.766	0.975	0.75	0.34
		1.2	0.912	1.161	0.883	0.39
		1.6	1.196	1.522	1.14	0.5
38 X 19	1 1/2 X 3/4	1.0	0.857	1.091	1.08	0.727
		1.2	1.02	1.298	1.26	0.847
		1.6	1.33	1.7	1.61	1.06
38 X 25	1 1/2 X 1	1.0	0.951	1.211	1.29	1.03
		1.2	1.13	1.442	1.52	1.2
		1.6	1.49	1.89	1.95	1.53
50 X 25	2 X 1	1.0	1.14	1.451	1.92	1.3
		1.2	1.36	1.73	2.26	1.53
		1.6	1.79	2.276	2.91	1.95
		2.3	2.51	3.193	3.94	2.59
		3.0	3.19	4.063	4.84	3.11
		3.2	3.38	4.302	5.07	3.24
65 X 35	2 1/2 X 1 3/8	1.6	2.38	3.032	5.19	3.7
		1.9	2.797	3.563	6.01	4.26
		2.3	3.338	4.252	7.04	4.96
		3.0	4.246	5.409	8.65	6.04
		3.2	4.5	5.727	9.06	6.31
		4.0	5.455	6.949	10.55	7.27
65 X 38	2 1/2 X 1 1/2	1.6	2.49	3.172	5.63	4.18
		1.9	2.88	3.669	6.46	4.8
		2.3	3.52	4.481	7.74	5.69
		3.0	4.39	5.288	9.18	6.75
		3.2	4.65	5.919	9.63	7.06
		4.0	5.64	7.188	11.2	8.17
75 X 25	3 X 1	1.6	2.38	3.03	5.35	2.81
		1.9	2.8	3.56	6.22	3.22
		2.3	3.34	4.25	7.31	3.74
		3.0	4.25	5.4	9.04	4.52
		4.0	5.45	6.95	11.18	5.42
		4.5	6.02	7.67	12.11	5.77

ASTM A - 500

Section Index		Thk	Weight	Sect. Area	Modulus of Section	
A X B					Zx	Zy
mm	inch	mm	kg/m	cm ²	cm ³	cm ³
75 X 38	3 X 3 1/2	1.6	2.71	3.448	6.76	4.66
		1.9	3.18	4.057	7.85	5.39
		2.3	3.81	4.85	9.23	6.3
		3.0	4.86	6.188	14.4	7.72
		3.2	5.15	6.559	12	8.09
		4.0	6.27	7.988	14.1	9.4
		4.5	6.94	8.839	15.2	10.1
75 X 50	3 X 2	1.6	3.008	3.83	8.14	6.56
		1.9	3.54	4.513	9.48	7.62
		2.3	4.24	5.402	11.2	8.96
		3.0	5.42	6.908	13.9	11.1
		3.2	5.75	7.327	14.6	11.7
		4.0	7.02	8.948	17.3	13.7
		4.5	7.79	9.919	18.8	14.9
		5.0	8.53	10.86	20.2	15.9
		6.0	9.92	12.63	22.5	17.6
100 X 40	-	1.9	3.99	5.083	12.5	7.5
		2.3	4.78	6.092	14.8	8.8
		3.0	6.13	7.809	18.5	10.8
		4.0	7.97	10.15	23.1	13.3
		4.5	8.85	11.27	25.2	14.4
100 X 50	4 X 2	1.6	3.636	4.63	12.26	8.43
		1.9	4.29	5.463	14.3	9.8
		2.3	5.14	6.552	17	11.6
		3.0	6.6	8.408	21.3	14.4
		3.2	7.01	8.927	22.5	15.2
		4.0	8.6	10.95	26.8	18
		4.5	9.55	12.17	29.3	19.5
		5.0	10.5	13.36	31.6	21
		6.0	12.3	15.63	35.7	23.5
100 X 75	4 X 3	2.3	6.046	7.7	22.5	19.3
		3.0	7.78	9.91	28.4	24.3
		3.2	8.26	10.53	30	25.6
		4.0	10.2	12.95	36	30.8
		4.5	11.3	14.42	39.6	33.7
		5.0	12.5	15.86	42.9	36.5
		6.0	14.6	18.63	49	41.6
120 X 60	-	3.0	8.013	10.21	31.5	21.5
		3.2	8.51	10.85	33.3	22.6
		4.0	10.479	13.35	40.1	27.1
		4.5	11.672	14.87	44.1	29.6
		5.0	12.84	16.36	47.8	32
		6.0	15.099	19.23	54.7	36.3

LEADER STEEL HOLDINGS BERHAD

WISMA LEADER STEEL (267209-K)

Plot 85, Lorong Perusahaan Utama,
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LEADER STEEL

MILD STEEL COLD / HOT RECTANGULAR HOLLOW SECTION

ASTM A - 500

Section Index		Thk	Weight	Sect. Area	Modulus of Section	
A X B					Zx	Zy
mm	inch	mm	kg/m	cm ²	cm ³	cm ³
120 X 80	-	3.0	8.956	11.41	38.4	30.9
		3.2	9.52	12.13	40.6	32.6
		4.0	11.735	14.95	49.1	39.3
		4.5	13.085	16.67	54.1	43.2
		5.0	14.41	18.36	58.9	46.9
		6.0	16.983	21.63	67.7	53.8
125 X 50	5 X 2	2.3	6.046	7.7	23.7	14.2
		3.0	7.78	9.91	29.9	17.7
		3.2	8.26	10.53	31.6	18.7
		4.0	10.2	12.95	38	22.2
		4.5	11.3	14.42	41.7	24.2
		5.0	12.5	15.86	45.2	26.1
		6.0	14.6	18.63	51.5	29.3
125 X 75	5 X 3	2.3	6.949	8.85	30.6	23.3
		3.0	8.96	11.41	38.9	29.5
		3.2	9.52	12.13	41.1	31.1
		4.0	11.7	14.95	49.7	37.5
		4.5	13.1	16.67	54.8	41.2
		5.0	14.4	18.36	59.6	44.7
		6.0	17	21.63	68.5	51.1
		9.0	24.1	31.23	98.5	70.6
150 X 50	6 X 2	2.3	6.949	8.85	31.4	16.8
		3.0	8.96	11.41	39.8	21.1
		3.2	9.52	12.13	42.1	22.2
		4.0	11.7	14.95	50.9	26.5
		4.5	13.1	16.67	56	28.9
		5.0	14.4	18.36	60.8	31.1
		6.0	17	21.63	69.8	35.2



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LEADER STEEL

MILD STEEL COLD / HOT ROLL SQUARE HOLLOW SECTION

ASTM A - 500

Section Index		Thk	Weight	Sect. Area	Modulus of Section	
A X B					Zx	Zy
mm	inch	mm	kg/m	cm ²	cm ³	cm ³
12 X 12	1/2 X 1/2	1.0	0.34	0.431	0.144	0.144
		1.2	0.40	0.506	1.630	1.630
		1.6	0.51	0.644	0.193	0.193
16 X 16	5/8 X 5/8	1.0	0.46	0.591	0.276	0.276
		1.2	0.55	0.698	0.317	0.317
		1.6	0.71	0.9	0.387	0.387
19 X 19	3/4 X 3/4	1.0	0.56	0.711	0.403	0.403
		1.2	0.66	0.842	0.466	0.466
		1.6	0.86	1.092	0.577	0.577
20 X 20	-	1.2	0.68	0.865	0.498	0.498
		1.6	0.87	1.112	0.608	0.608
25 X 25	1 X 1	1.0	0.75	0.951	0.728	0.728
		1.2	0.89	1.13	0.85	0.85
		1.6	1.16	1.476	1.07	1.07
		1.8	1.29	1.643	1.17	1.17
		2.3	1.60	2.043	1.40	1.40
		3.0	2.01	2.563	1.65	1.65
		3.2	2.12	2.702	1.71	1.71
30 X 30	-	1.2	1.08	1.37	1.26	1.26
		1.6	1.41	1.796	1.60	1.60
		1.8	1.57	2.003	1.76	1.76
		2.3	1.97	2.503	2.12	2.12
		3.0	2.48	3.163	2.55	2.55
		3.2	2.62	3.342	2.66	2.66
32 X 32	1 1/4 X 1 1/4	1.2	1.15	1.466	1.44	1.44
		1.6	1.51	1.924	1.84	1.84
		1.8	1.69	2.147	2.03	2.03
		2.0	1.86	2.366	2.21	2.21
		2.3	2.11	2.687	2.46	2.46
		3.0	2.67	3.403	2.97	2.97
		3.2	2.83	3.598	3.10	3.10
35 X 35	-	1.2	1.24	1.585	1.70	1.70
		1.6	1.63	2.072	2.17	2.17
		1.8	1.81	2.307	2.38	2.38
		2.0	1.99	2.537	2.58	2.58
		2.3	2.26	2.872	2.85	2.85
		3.0	2.83	3.609	3.40	3.40
		3.2	2.99	3.807	3.53	3.53

ASTM A - 500

Section Index		Thk	Weight	Sect. Area	Modulus of Section	
A X B					Zx	Zy
mm	inch	mm	kg/m	cm ²	cm ³	cm ³
38 X 38	1 1/2 X 1 1/2	1.2	1.38	1.754	2.08	2.08
		1.6	1.81	2.308	2.67	2.67
		1.8	2.02	2.579	2.95	2.95
		2.0	2.23	2.846	3.22	3.22
		2.3	2.54	3.239	3.61	3.61
		3.0	3.24	4.123	4.41	4.41
		3.2	3.43	4.366	4.62	4.62
40 X 40	-	1.2	1.43	1.825	2.27	2.27
		1.6	1.88	2.392	2.9	2.9
		1.8	2.09	2.667	3.19	3.19
		1.9	2.2	2.804	3.33	3.33
		2.0	2.31	2.94	3.47	3.47
		2.3	2.62	3.332	3.86	3.86
		3.0	3.3	4.208	4.7	4.7
3.2	3.49	4.447	4.9	4.9		
50 X 50	2 X 2	1.6	2.41	3.076	4.79	4.79
		1.8	2.7	3.443	5.32	5.32
		1.9	2.8	3.62	5.57	5.57
		2.3	3.41	4.343	6.56	6.56
		3.0	4.25	5.408	7.79	7.79
		3.2	4.5	5.727	8.16	8.16
		4.0	5.45	6.948	9.49	9.49
		4.5	6.02	7.669	10.2	10.2
		5.0	6.56	8.356	10.8	10.8
6.0	7.56	9.663	11.8	11.8		
60 X 60	-	1.6	2.88	3.67	6.89	6.89
		2.3	4.06	5.17	9.44	9.44
		3.0	5.18	6.6	11.7	11.7
		3.2	5.5	7	12.3	12.3
		4.0	6.71	8.55	14.1	14.1
		4.5	7.43	9.46	15.6	15.6
65 X 65	2 1/2 X 2 1/2	1.6	3.133	3.99	8.2	8.2
		2.3	4.42	5.63	11.2	11.2
		3.0	5.66	7.21	14	14
		3.2	6	7.647	14.7	14.7
		4.0	7.34	9.35	17.4	17.4
		4.5	8.14	10.37	18.9	18.9
		5.0	8.92	11.36	20.3	20.3
		6.0	10.4	13.23	22.7	22.7

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MILD STEEL COLD / HOT ROLL SQUARE HOLLOW SECTION

ASTM A - 500

Section Index		Thk	Weight	Sect. Area	Modulus of Section	
A X B					Zx	Zy
mm	inch	mm	kg/m	cm ²	cm ³	cm ³
75 X 75	3 X 3	1.6	3.636	4.63	11	11
		2.3	5.14	6.55	15.2	15.2
		3.0	6.6	8.41	19.1	19.1
		3.2	7.01	8.927	20.1	20.1
		4.0	8.6	10.95	24	24
		4.5	9.55	12.17	26.3	26.3
		5.0	10.5	13.36	28.4	28.4
		6.0	12.3	15.63	32	32
80 X 80	-	2.3	5.505	7.01	17.5	17.5
		3.0	7.072	9.01	22	22
		3.2	7.51	9.57	23.2	23.2
		4.0	9.223	11.75	27.8	27.8
		4.5	10.259	13.07	30.4	30.4
		5.0	11.27	14.36	32.9	32.9
		6.0	13.215	16.83	37.3	37.3
90 X 90	3 1/2 X 3 1/2	2.3	6.23	7.93	22.4	22.4
		3.0	8.01	10.21	28.3	28.3
		3.2	8.52	10.85	29.9	29.9
		4.0	10.5	13.35	36	36
		4.5	11.7	14.87	39.5	39.5
		5.0	12.8	16.36	42.9	42.9
		6.0	15.1	19.23	49	49
100 X 100	4 X 4	2.3	6.95	8.85	27.9	27.9
		3.0	8.96	11.41	35.4	35.4
		3.2	9.52	12.13	37.5	37.5
		4.0	11.7	14.95	45.3	45.3
		4.5	13.1	16.67	49.9	49.9
		5.0	14.4	18.36	54.2	54.2
		6.0	17	21.63	62.3	62.3
		9.0	24.1	30	78.1	78.1
120 X 120	-	2.3	8.394	10.69	40.9	40.9
		3.0	10.84	13.81	52.1	52.1
		3.2	11.5	14.69	55.1	55.1
		4.0	14.247	18.15	67	67
		4.5	15.911	20.27	74.1	74.1
		5.0	17.55	22.36	80.9	80.9
		6.0	20.751	26.43	93.7	93.7
		9.0	29.732	37.88	125.9	125.9
125 X 125	5 X 5	3.0	11.3	14.41	56.7	56.7
		3.2	12	15.33	60.1	60.1
		4.0	14.9	18.95	73.2	73.2
		4.5	16.6	21.17	80.9	80.9
		5.0	18.3	23.36	88.4	88.4
		6.0	21.7	27.63	103	103
		9.0	31.1	39	134	134

ASTM A - 500

Section Index		Thk	Weight	Sect. Area	Modulus of Section	
A X B					Zx	Zy
mm	inch	mm	kg/m	cm ²	cm ³	cm ³
150 X 150	6 X 6	3.0	13.7	17.41	83	83
		3.2	14.5	18.53	88.1	88.1
		4.0	18	22.95	108	108
		4.5	20.2	25.67	120	120
		5.0	22.3	28.36	131	131
		6.0	26.4	33.63	153	153
		9.0	38.3	48	205	205



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LEADER STEEL

MILD STEEL COLD / HOT ROLL SQUARE HOLLOW SECTION

ASTM A - 500

Section Index		Thk	Weight	Sect. Area	Modulus of Section	
A X B					Zx	Zy
mm	inch	mm	kg/m	cm ²	cm ³	cm ³
150 X 75	6 X 3	2.3	7.852	10	39.8	27.4
		3.0	10.1	12.91	50.6	34.7
		3.2	10.8	13.73	53.6	36.6
		4.0	13.3	16.95	65.1	44.2
		4.5	14.9	18.92	71.9	48.7
		5.0	16.4	20.86	78.4	52.9
		6.0	19.3	24.63	90.5	60.7
		9.0	27.6	35.17	121	79.2
150 X 100	6 X 4	3.0	11.311	14.41	61.4	49.5
		4.0	14.9	18.95	79.3	63.7
		4.5	16.6	21.17	87.7	70.4
		5.0	18.3	23.36	95.9	76.8
		6.0	21.7	27.63	111.1	88.8
		9.0	31.1	39.67	150.5	119
		12.0	39.672	50.54	180	141
160 X 80	-	3.0	10.84	13.81	58	39.8
		3.2	11.529	14.69	61.4	42.1
		4.0	14.247	18.15	74.7	50.9
		4.5	15.911	20.27	82.6	56.1
		5.0	17.55	22.36	90.2	61
		6.0	20.751	26.43	104.5	70.2
		9.0	29.734	37.88	140.5	92.6
200 X 100	8 X 4	4.0	18	22.95	120	82.2
		4.5	20.2	25.67	133	90.9
		5.0	22.3	28.36	146	99.4
		6.0	26.4	33.63	170	115
		9.0	38.2	48	228	153
		12.0	49.092	62.54	286	187.8

ASTM A - 500

Section Index		Thk	Weight	Sect. Area	Modulus of Section	
A X B					Zx	Zy
mm	inch	mm	kg/m	cm ²	cm ³	cm ³
200 X 150	8 X 6	4.0	21.155	26.95	158.4	136.1
		4.5	23.683	30.17	176.2	151.3
		5.0	26.185	33.36	193.5	166
		6.0	31.113	39.63	226.8	194.3
		9.0	45.277	57.68	316.7	270
		12.0	58.512	74.54	316.7	270
250 X 150	10 X 6	4.0	24.295	30.95	215.8	164.6
		4.5	27.215	34.67	240.3	183
		5.0	30.11	38.36	264.3	201.1
		6.0	35.823	45.63	310.9	235.8
		9.0	52.342	66.68	438.3	329.7
		10.0	57.641	73.43	476.8	357.7
		12.0	67.932	86.54	548.3	409.1
		16.0	87.274	111.18	669.2	494.2
300 X 200	12 X 8	4.5	34.28	43.67	377.5	305.2
		5.0	37.96	48.36	416.1	336.1
		6.0	45.243	57.63	491.4	396.2
		9.0	66.472	84.68	702	563.2
		10.0	73.341	93.43	767.2	614.5
		12.0	86.772	110.54	890.4	710.7
		16.0	112.394	143.18	1108.7	879.2
400 X 200	16 X 18	4.5	41.345	52.67	565.8	391.2
		5.0	45.81	58.36	624.5	461.2
		6.0	54.663	69.63	739.5	509.2
		9.0	80.602	102.68	1065.2	727.4
		10.0	89.041	113.43	1167.5	795.1
		12.0	105.612	134.54	1362.7	923.1
		16.0	137.514	175.18	1717.1	1150.7

LEADER STEEL HOLDINGS BERHAD

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